RAISECOM

RMON Commands-1

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Chapter 1   RMON Commands

1.1 clear rmon

[Function]

Use **clear rmon** command to clear all RMON information.

[Command Format]

clear rmon

[Command Modes]

Global configuration mode

[Executing Command Instruction]

Clear RMON configuration and recover to default configuration.

[Explanation of command execution echo]

Set successfully

[Example]

Raisecom(config)#**clear rmon**

1.2 rmon alarm

[Function]

Use add rmon alarm entries, use **no** format to delete.

[Command Format]

rmon alarm *<1-512> MIBVAR* [**interval** *<1-3600>*] {**delta** | **absolute**} **rising-threshold** *<1-65535>$_1$ [<1-65535>$_2$]* **falling-threshold** *<0-2147483647>$_3$ [<1-65535>$_4$]* [**owner** *STRING*]

no rmon alarm *<1-512>*

[Parameter]

<1-512>: Index number;

MIBVAR: the MIB variable which should be remotely monitored;

Interval: check the MIB variable time period;

<1-3600>: the time period for checking MIB variable (unit is second);

delta: check between the change for MIB variables;

absolute: check the absolute value for MIB;

rising-threshold: upper threshold value for MIB variable;

<1-65535>1: upper threshold value for MIB variable;

<1-65535>2: rising-threshold associated index;

falling-threshold: lower threshold value for MIB variable;

<0-2147483647>3: lower threshold value for MIB variable;

<1-65535>4: falling-threshold associated MIB variable;

owner: Alarm table associated owner;

STRING: owner characters.

[Default]

Default polling time period is 2s.

Default owner is config.

[Command Modes]

Global configuration mode

[Executing Command Instruction]

MIBVAR should be decimal dotted; this command should be efficient MIB variable and can be monitored, otherwise the MIB variable can not be monitored. Use **no rmon alarm** *<1-512>* command to delete associated Alarm.

[Explanation of command execution echo]

Wrong Mib variable format!

Wrong MIB variable!

Owner name is too long!

Set successfully.

Set unsuccessfully

[Example]

Set alarm 10, use it to monitor MIB variable 1.3.6.1.2.1.2.2.1.20.1, every 20 seconds, check the value whether it is rising or falling. If rise 15, Example rise from 10000 to 10015, spring alarm:

Raisecom(config)#**rmon alarm** *10 1.3.6.1.2.1.2.2.1.20.1 interval 20* **delta rising-threshold** *15 1* **falling-threshold** 1 **owner** *Johnson*

[Related commands]

Commands	Description
show rmon alarm	Show rmon alarm table.

1.3 rmon event

[Function]

Use this command to add RMON event table, **no** command is used to delete the operation.

[Command Format]

rmon event *<1-65535>* **[log] [trap] [description** *STRING***] [owner** *STRING***]**

no rmon event *<1-65535>*

[Parameter]

<1-65535>: index of RMON Event table;

log: whether to log when it is triggered;

trap: send the community name of trap;

description: description;

STRING: description string;

owner: owner;

STRING: string of owner.

[Default]

The default community name is public.

The default description string is null.

The default owner is config.

[Command Modes]

Global configuration mode

[Executing Command Instruction]

Use the command to add and set the attribute of event.

[Explanation of command execution echo]

Description is too long!

Owner name is too long!

Set successfully.

Set unsuccessfully

[Example]

RMON event table:

Raisecom(config)#**rmon event** *1* **trap owner** *private*

[Related commands]

Commands	Description
Show rmon event	show RMON EVENT table.

1.4 show rmon alarms

[Function]

Use **show rmon alarms** to show rmon alarm information.

[Command Format]

show rmon alarms

[Command Modes]

Privileged EXEC; privileged user.

[Executing Command Instruction]

Refer RFC 1757 for detail information of **rmon alarms** table

[Example]

Show rmon alarm table information:

Raisecom#**show rmon alarms**

Alarm 10 is Active, Owned by jjhshen

Monitors 1.3.6.1.2.1.2.2.1.20 every 20 seconds

Taking delta   samples, last value was 0

Rising threshold is 15, assigned to event 1

Falling threshold is 1, assigned to event 0

On startup enable rising or falling alarm

[Related commands]

Commands	Description
show rmon event	Show rmon **events** table information
show rmon history	Show rmon **history** table information.
show rmon statistics	Show rmon **statistics** table information.

1.5 show rmon events

[Function]

Use **show rmon event** to show information of rmon **events** table.

[Command Format]

show rmon event

[Command Modes]

Privileged EXEC, privileged user

[Executing Command Instruction]

Refer RFC 1757 for detail information of **rmon alarms** table.

[Example]

Show rmon events table information:

Raisecom#**show rmon event**

Event 2 is active, owned by this

Description is eee.

Event firing causes log and trap ,last send 0:0:0.

[Related commands]

Commands	Description
show rmon history	Show rmon **history** table information.
show rmon statistics	Show rmon **statistics** table information.
show rmon alarm	Show rmon alarm table information.

1.6 show rmon statistics

[Function]

Use **show rmon statistics** to show information of rmon **statistics** table.

[Command Format]

show rmon statistics

[Command Modes]

Privileged EXEC, privileged user

[Executing Command Instruction]

Refer RFC 1757 for detail information of **rmon alarms** table.

[Example]

Show information of rmon **statistics** table:

Raisecom#**show rmon statistics**

Interface 2 is active, and owned by monitorEtherStats

Monitors 1.3.6.1.2.1.2.2.1.1.17825795(ifEntry.1.17825795),which has

Received 0 octets, 0 packets,

0 broadcast and 0 multicast packets,

0 undersized and 0 oversized packets,

0 fragments and 0 jabbers,

0 CRC alignment errors and 0   collisions.

# of dropped packet events (due to lack of resources): 0

# of packets received of length (in octets):

64: 0, 65-127: 0, 128-255: 0,

256-511: 0, 512-1023: 0, 1024-1518:0

[Related commands]

Commands	Description
show rmon history	Show the information of rmon history table.
show rmon events	Show the information of rmon events table.
show rmon alarms	Show the information of rmon alarm table.

64: 0, 65-127: 0, 128-255: 0,

256-511: 0, 512-1023: 0, 1024-1518:0